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(74) Agent: OGILVY RENAULT; Suite 1600, 45 O'Connor  
Street, Ottawa, Ontario K1P 1A4 (CA).

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(71) Applicant (for all designated States except US): CANA-  
DIAN BLOOD SERVICES [CA/CA]; 1800 Alta Vista  
Drive, Ottawa, Ontario K1G 4J5 (CA).

(72) Inventor; and

(75) Inventor/Applicant (for US only): DENOMME, Gre-  
gory A. [CA/CA]; 150 Strawberry Drive, Hamilton, On-  
tario L8E 4S2 (CA).

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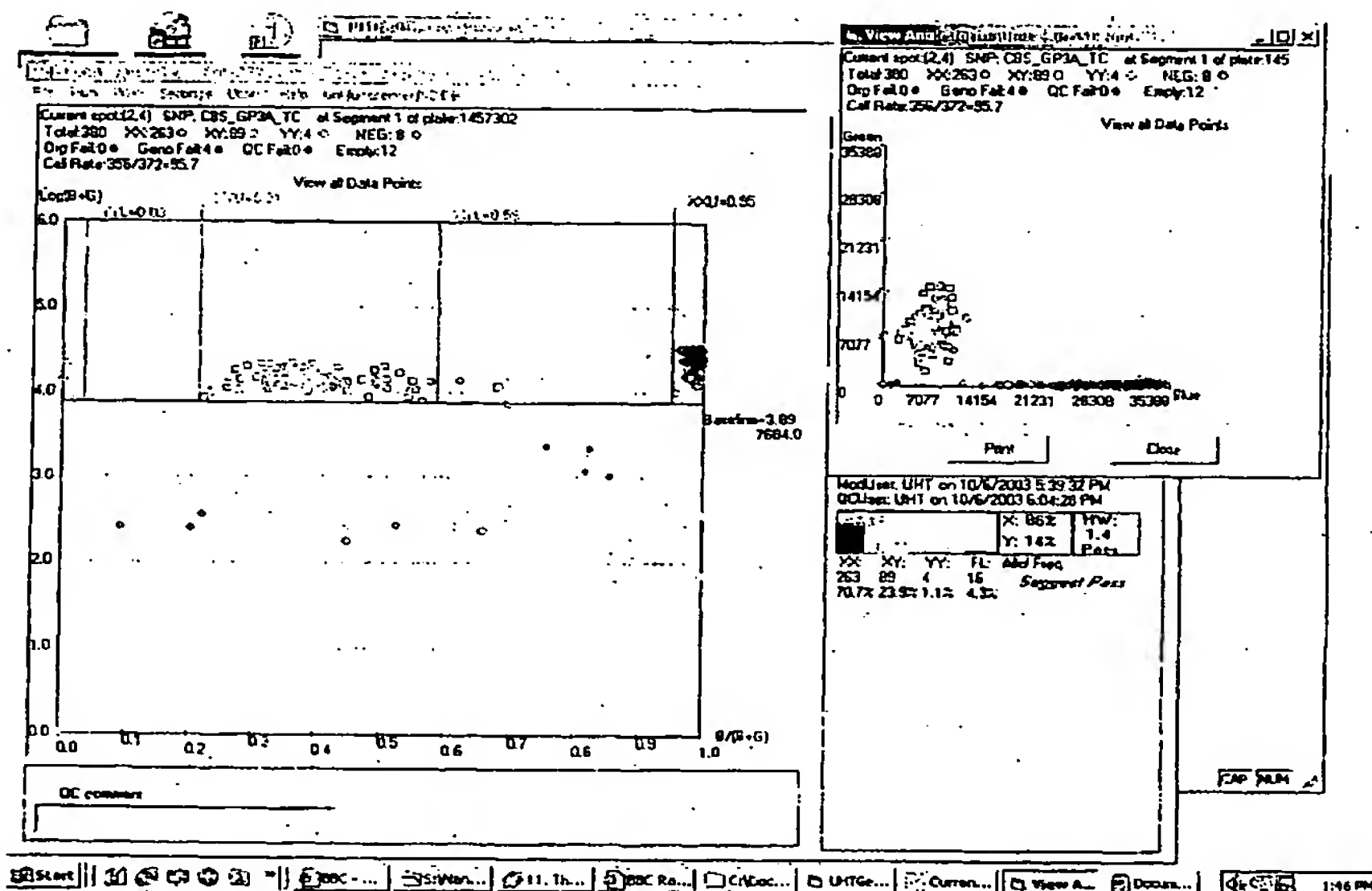
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(54) Title: A METHOD FOR THE SIMULTANEOUS DETERMINATION OF BLOOD GROUP AND PLATELET ANTIGEN  
GENOTYPES



(57) Abstract: RBC and platelet (Plt) alloimmunization requires antigen-matched blood to avoid adverse transfusion reactions. Some blood collection facilities use unregulated Abs to reduce the cost of mass screening, and later confirm the phenotype with government approved reagents. Alternatively, RBC and Plt antigens can be screened by virtue of their associated single nucleotide polymorphisms (SNPs). We developed a multiplex PCR-oligonucleotide extension assay using the GenomeLab SNPStream platform to genotype blood for a plurality of blood group antigen-associated SNPs, including but not limited to: RhD (2), RhC/c, RhE/e, S/s, K/k, Kp<sup>a/b</sup>, Fya/b, FY0, Jk<sup>a/b</sup>, Dia<sup>b</sup>, and HPA-1a/b.

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